

**Size:** 1,628 acres (1,572 acres owned by the Navy)  
**Mission:** Research, develop, and produce solid propellant rocket motors for DoD and NASA  
**HRS Score:** 50.00; placed on NPL in May 1994  
**IAG Status:** Federal Facility Agreement signed January 1998  
**Contaminants:** VOCs, RDX, HMX, and silver  
**Media Affected:** Groundwater and soil  
**Funding to Date:** \$13.9 million  
**Estimated Cost to Completion (Completion Year):** \$55.8 million (FY2033)  
**Final Remedy in Place or Response Complete Date for All Sites:** FY2011



**Mineral County, West Virginia**

## Restoration Background

Environmental studies initiated in FY83 identified 11 sites at this government-owned, contractor-operated installation. A confirmation study recommended further study at eight of these sites. Remedial Investigation and Feasibility Study (RI/FS) activities began for six sites in FY92. Site 1 consists of six waste disposal units, including ordnance burning grounds, inactive solvent and acid pits, a drum storage area, a former open-burn area, and an ash landfill.

In FY93, a RCRA Facility Assessment identified 119 solid waste management units (SWMUs) and 12 areas of concern (AOCs). Further action was recommended at 61 of the SWMUs and AOCs. In FY94, Site 7, a beryllium landfill, was excavated. Also in FY94, the installation began to negotiate waste disposal options with the State of West Virginia and EPA Region 3. In addition, the Agency for Toxic Substances and Disease Registry completed a Public Health Assessment.

During FY95, the installation began sampling off-site residential wells. It also completed the focused RI for Site 1 and initiated a Phase I RCRA Facility Investigation (RFI) for the SWMUs and AOCs. Baseline Risk Assessments were completed for Sites 1 through 5 and Site 10. During FY96, the installation completed a Focused Feasibility Study (FFS) for groundwater, began an FFS for soil, and initiated groundwater Remedial Design (RD) for Site 1. The installation completed an FFS and initiated an RD for landfill contents and soil at Site 5. It also completed an Engineering Evaluation and Cost Analysis for Site 7, initiated an FFS for Site 10, and completed a Site Inspection and initiated an RI/FS for Site 11.

In FY97, the Record of Decision (ROD) for Site 1 was signed, and the RD for a water treatment plant (WTP) was implemented to obtain hydraulic containment. A Remedial Action (RA) was initiated for groundwater at Site 1. A ROD was signed, completing the FFS for Site 5. An RD was implemented for a landfill cap. Negotiation of waste disposal options concluded, and the Removal Action for Site 7 was completed. Eight SWMUs were targeted for cleanup. Three-dimensional seismic survey validation was used to accelerate fieldwork.

The installation established a technical review committee in FY89 and converted it to a Restoration Advisory Board (RAB) in FY95. The RAB, which has 25 members, reviews technical documents, presents its views to the community, and communicates the progress of the cleanup program. In FY94, a community relations plan was completed, and an administrative record and two information repositories were established.

## FY98 Restoration Progress

The Federal Facility Agreement was signed. The RI was implemented for Site 11. For Site 10, the FFS was completed, the ROD was signed, the RD was completed, and the RA was awarded. The Site 1 WTP was used to accomplish hot-spot extraction of groundwater for Site 10. By prioritizing the Site 10 RA and making necessary changes to the construction of the Site 1 treatment plant to permit the treatment of Site 10 water, the installation was able to reduce costs. A completed Environmental Baseline Survey (EBS) identified the current environmental status at the installation.

The Phase I RFI for SWMUs and AOCs, originally scheduled for completion in FY98, will be replaced with a new document in

FY99 because SWMUs will be included in a no further action ROD following a revised investigation. Unforeseen geological conditions have prevented the Navy from signing the ROD, initiating the RD, and completing the RI/FS for Site 11. The RI/FS is scheduled for completion in FY99.

Partnering between the Navy, EPA, and the West Virginia Division of Environmental Protection expedited cleanup efforts. Local labor was used to the greatest extent possible to increase local involvement and allow the community to track the economic benefits it receives from the cleanup.

## Plan of Action

- Complete ROD for Sites 2, 3, 4a, 4b, and 7 in FY99
- Complete RODs for various SWMUs in FY99
- Complete SWMU investigation in FY99
- Complete Site 11 RI report in FY99
- Complete Site 1 soil FS in FY99
- Complete Site 10 RA in FY99
- Initiate RD for Site 1 soil in FY00

## FY99 FUNDING BY PHASE AND RELATIVE RISK

